

LESSON V. Write one page of *mn*, setting eight of them on a line. Write eight lines on a page, leaving two spaces between the lines. Do you all understand what is meant by a space? Well, take care of the spaces. A little care will prevent mistakes.

LESSON VI. Write one page of *oo*, setting about eighteen of them on a line, and joining them together by a waving hair stroke. Most letters are formed of straight and curved lines combined. The *o* is formed of curved lines only, a curved shade on the left, and a curved hair line on the right. It is commenced and finished at the top. It forms a part of *a, d, g, and q.*

LESSON VII. Write one page of *ee*, drawing about twenty-two of them on a line. This letter is of an oval form, like the *o*, and should, in coarse hand, be commenced and finished at the top.

LESSON VIII. The size of the *mm* in this lesson, is only two spaces. Draw about twelve of them on a line, and write ten lines on a page, leaving two spaces between the lines. Draw the parts of *m* equi-distant; slope them alike, and join them near the bottom.

LESSON IX. Write ten lines on a page of this lesson, taking care to draw word under word, in regular columns. Perpendicular ruled lines, lightly drawn with a pencil, will assist you in preserving this regularity of columns. Form the dot over *i* by a circular movement of the pen, rather than by a sudden pressure.

LESSON X. Write seven lines of *gg* on a page, leaving one space between the lines. Draw about twenty of them on a line. Count off five spaces for the length of *g*, and set a small dot in the margin, at the bottom of the fifth space, then draw the first letter on the line, down as far as the dot, then the whole line may be written without making mistakes in the length. If necessary, let this be done at the beginning of every line of long letters. Make the loops of *g* two spaces and a half long.

LESSON XI. Write seven lines of *pp* on a page, drawing the stem five spaces long, and leaving one space between the lines. Write about twenty of them on a line, joining them together. If you can make a good *p*, you can make a good *h*. Almost all the small manuscript letters in the alphabet, are formed by combining in various ways, six or seven characters, or first principles.

LESSON XII. Write seven lines of *yy* on a page, leaving one space between the lines. Draw about twenty of them on a line; make the loops two spaces and a half long. The last part of *y* is the same as the last part of *g*, and the lower or main part of *j*.

LESSON XIII. Write ten lines, or a page of this lesson, taking care to draw word under word, in regular columns. The top, or point of short *s*, is carried a little higher than the other short letters. The dot or bulb of *s* should be set on the hair line, like the copy, with the hair line running through the centre. The bulb, or last part of *r*, should be made light and delicate. Young writers generally make the bulb of *r, a, n, and h*, too coarse and clumsy.

LESSON XIV. Write the words *ammunition* and *examination*, so as to fill a line with the two words; allowing half an inch for an outer margin, and the same for an inner margin. The coarse part of *x* is like the last part of *n*, except it is not made so sloping. Or *x* made with dots and bulbs, is like *c* joined to an inverted *c*.

LESSON XV. Write eight lines of this lesson on a page, drawing word under word, in regular columns. Make *t* three spaces, and *h, d, and k*, four spaces in length. The last part of *k* should be written with great care.

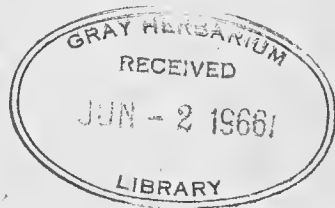
LESSON XVI & XVII. Write four pages of capitals; two pages of the first line, or sixteenth lesson, and two pages of the second line, or seventeenth lesson. Write ten lines on a page, leaving one space between the lines. The learner, in order to render the capitals easy, and execute them correctly, should, before he begins to write them, take a pen without ink in it, and run over each capital, a dozen times or more, and accustom his hand to touch lightly with the pen where the hair lines are, and give a gradual waxing and curving pressure on the shoulders, or coarse marks. Hair lines should be made with the right corner of the pen. Coarse marks should be made by an equal pressure on both teeth of the pen, and without painting or dabbing.

LESSON XVIII. Write one page of figures. Set fourteen lines on a page, leaving one space between the lines.

LESSON XIX. Write a page of the word *compliment*, drawing eight lines on a page, writing it twice on a line, and leaving three spaces between the lines.

LESSON XX. Write a page of the word *implement*, observing the foregoing rule.

Finally, write a page of each remaining lesson, and your book will be filled. Do not hurry over these lessons, but write them with great care, so that when this book is finished, you may be prepared to write *Book Second*. Be careful to make every letter, whether long or short, of the same length, size, shape, and slope as your copy. In a word—*imitate your copy.*



8	Mon	<i>Acer montanum</i>	74
"	"	<i>pennsylvanicum</i>	72
"	"	<i>rubrum</i>	72
"	"	<i>negundo</i>	72
17	Sup	<i>Achillea millefolium</i>	139
12	2-5	<i>Aconitum variegatum</i>	104
6	Mon	<i>Acorus calamus</i>	58
7	"	<i>Aesculus hippocastanum</i>	66
12	"	<i>Aethra americana, alb.</i>	98
21	Fili	<i>Achillea pedatum</i>	179
11	2-5	<i>Agrimonia eupatoria</i>	56
10	Pen	<i>Agrostemma coronaria</i>	54
"	"	<i>githago</i>	52
6	Mon	<i>Allium schoenoprasium</i>	60
19	Set	<i>Alnus serrulata</i>	163
15	Pol	<i>Althea rosea</i>	125
14	Fili	<i>Alyssum maritimum</i>	117
19	Pen	<i>Anemone alba</i>	160
"	"	<i>hybrida</i>	"
"	"	<i>hepatica</i>	"
"	"	<i>melancholica</i>	"
"	"	<i>Ambrosia elatior</i>	159
17	"	<i>Ammodendron alatum</i>	142
16	Dec	<i>Amphicarpa monica</i>	133
11	Mon	<i>Amgdales persica</i>	87
10	"	<i>Andromeda calyculata</i>	79
"	"	<i>racemosa</i>	82
3	Big	<i>Andropogon furcatus</i>	22
12	Pol	<i>Anemone nemorosa</i>	102
"	"	<i>quinquefolia</i>	76
"	"	<i>virginiana</i>	"
5	Big	<i>Anethum graveolens</i>	48
"	"	<i>Angelica atropurpurea</i>	54
17	Sup	<i>Antennaria cotula</i>	139
"	"	<i>nobilis</i>	143
3	Big	<i>Anthoxanthum odoratum</i>	18
13	Aug	<i>Antirrhinum majus</i>	110
16	Dec	<i>Apis tuberosa</i>	127
5	Big	<i>Apocynum androsaemifolium</i>	52
"	"	<i>hypericifolium</i>	39

12	2-5	<i>Aquilegia canadensis</i>	100
"	"	" <i>vulgaris</i>	"
14	Siliq.	<i>Arabis canadensis</i>	119
5	Per	<i>Aralia hispida</i>	44
"	"	" <i>nudicaulis</i>	48
"	"	" <i>racemosa</i>	44
10	Mon	<i>Arbutus uva ursi</i>	78
17	Aeg.	<i>Arctium lappa</i>	145
18	Mon	<i>Arethusa bulbosa</i>	151
12	"	<i>Argemone mexicana, albiflora</i>	97
11	2-5	<i>Aronia arbutifolia</i>	87
"	"	" " <i>melanocarpa</i>	92
"	"	" <i>botryapium</i>	90
17	Sup	<i>Artemisia abrotanum</i>	143
"	"	" <i>absinthium</i>	139
19	Sol	<i>Astrum triphyllum</i>	159
18	Dodec	<i>Asarum canadense</i>	151
5	Dig	<i>Asclepias <del>latifolia</del> quadrifolia</i>	47
"	"	" <i>incarnata</i>	54
"	"	" <i>obtusifolia</i>	38
"	"	" <i>phytolaccoides</i>	47
"	"	" <i>syriaca</i>	51
6	Mon	<i>Asparagus officinalis</i>	60
17	Sup	<i>Aster chinensis</i>	147
"	"	" <i>conyzoides</i>	145
"	"	" <i>corymbosus</i>	143
"	"	" <i>panicus</i>	136
16	Dec	<i>Astragalus canadensis</i>	129
3	Dig	<i>Avena sativa</i>	16
10	Mon	<i>Baptisia tinctoria</i>	60
14	Siliq.	<i>Barbarea vulgaris</i>	116
4	Mon	<i>Bartonia tenella</i>	30
17	Sup	<i>Beckia perennis</i>	145
6	Mon	<i>Berberis vulgaris, canad.</i>	60
5	Dig	<i>Beta vulgaris</i>	39
19	Sol	<i>Betula lenta</i>	161
"	"	" <i>populifolia</i>	157
17	Frut	<i>Bidens cernua</i>	139
"	"	" <i>frondosa</i>	"

5	Mon	<i>Borago officinalis</i>	51
21	Fil	<i>Botrycium virginicum</i>	176
14	Siliq.	<i>Brassica oleracea</i>	119
"	"	" <i>rapa</i>	"
17	Sup	<i>Cacalia coccinea</i>	141
"	Rec	<i>Calendula officinalis</i>	138
18	Mon	<i>Calopogon pulchellus</i>	149
12	Sol	<i>Caltha palustris</i>	94
5	Mon	<i>Campanula amplexicaulis</i>	47
"	"	" <i>aparinoides</i>	40
"	"	" <i>medium</i>	54
"	"	" <i>rotundifolia</i>	"
20	Per	<i>Cannabis sativa</i>	169
5	Mon	<i>Capsicum annum</i>	39
14	Siliq.	<i>Cardamine pennsylvanica</i>	115
17	Aeg	<i>Carthamus tinctorius</i>	145
5	Dig	<i>Carum carvi</i>	56
19	Sol	<i>Corya alba</i>	166
"	"	" <i>porcina</i>	161
10	Mon	<i>Cassia marilandica</i>	82
19	Sol	<i>Castanea vesca, americana</i>	157
5	Mon	<i>Ceanothus americanus</i>	54
"	"	<i>Celastrus scandens</i>	37
17	Frut	<i>Centaurea cyaneus</i>	140
"	"	" <i>maritima</i>	142
4	Mon	<i>Cephalanthus occidentalis</i>	30
10	Per	<i>Cerastium hirsutum</i>	82
"	"	" <i>tennifolium</i>	81
12	Sol	<i>Chelidonium majus</i>	85
13	Ang.	<i>Chelone glabra</i>	112
5	Dig	<i>Chenopodium album</i>	38
"	"	" <i>botrys</i>	53
"	"	" <i>hyssopifolium</i>	"
14	Siliq.	<i>Cleome grandiflora</i>	61
17	Sup	<i>Clethra alnifolia</i>	31
"	"	<i>Oxyanthemum carinatum</i>	147
"	"	" <i>coronarium</i>	136, 147
"	"	" <i>leucanthemum</i>	135, 139

17	Sup.	Chrysanthemum luteum	138
"	"	" parthenium	146
8 or 10	Dig.	Chrysanthemum oppositifolium	68, 84
5	"	Cicuta <del>altifolia</del> maculata	56
"	"	<del>Cicuta occidentalis</del>	"
2	Mon.	Circaea alpina	4
"	"	" lutea, canad.	4
5	"	Cissus hederacea	42
8	"	Clarkea pulchella	69
"	"	" , alba	45
5	"	Clatonia spatulata	44
12	Pol.	Clematis virginiana	146
17	Aeg.	Cnicus altissimus	143
"	"	" arvensis	140
"	"	" lanceolatus	115
14	Silic.	Coccolaria asmodia	157
19	Tri.	Comptonia asplenifolia	49
5	Dig.	Conium maculatum	62
6	Mon.	Convallaria biflora	"
"	"	" bifolia	"
"	"	" racemosa	"
"	"	" umbellata	141
5	"	<del>Convallaria parviflora</del>	49
"	"	Convolvulus sepium	36
12	Pol.	Coptis trifolia	153, 155
18	Mon.	Coralorhiza odoratiorhiza	153
"	"	" verna	145
17	Fus.	Coreopsis tinctoria	32
4	Mon.	Cornus circinata	34
"	"	" florida	34
"	"	" paniculata	39
"	"	" canadensis	132
16	Hex.	Corydalis cucularia	128
"	"	" glauca	163
19	Pol.	Corylus americana	92
11	2-5	Crataegus coccinea	87
"	"	" punctata	144
19	Mon.	Crepis barbata	155
"	"	Cucumis sativus	

10	Trig.	Cucubulus bohen	82
19	Mon.	Cucurbita citrullus	158
"	"	" metopepo	164
"	"	" pepo	"
5	Dig.	Cuscuta americana	54
18	Dian.	Cypripedium acaule	149
"	"	" pubescens	150
17	Sup.	Dahlia superflua	47
11	Pol.	Dalibarda fragaroides	87
"	"	" repens	88
5	Mon.	Datura stramonium	53
"	Dig.	Daucus carota	45
12	2-5	Delphinium consolida	102
"	"	" " alb.	95
"	"	" " roseum	"
10	Dig.	Didymium barbatus	85
"	"	" stasophyllus	"
"	"	" chinensis	"
"	"	" furcata	79
5	Mon.	Dierilla tournefortii	44
13	Ang.	Digitalis purpurea	116
8	Mon.	Dorea polystris	68
16	Dec.	Dorichos labiale	130
5	Hex.	Drosera rotundifolia	44
10	Mon.	Epigaea repens	78
8	"	Epilobium coloratum, tetragonum	68
"	"	" spicatum	"
21	Equis.	Equisetum arvense (fertile)	181
"	"	" hyemale	"
"	"	" sylvaticum	"
17	Sup.	Erigeron bellidifolium	141
"	"	" (S. Gaentley) canadense	136
"	"	" heterophyllum	138
"	"	" strigosum	145
19	Fet.	Eriocaulon pellucidum	160
3	Mon.	Eriophorum angustifolium	16
6	"	Erythronium dens canis	59

12		<del>Eschscholzia</del> <i>californica</i>	102
"		" <i>crocea</i>	95
13	Aug.	<i>Euchroma coccinea</i>	110
17	Aug.	<i>Eupatorium perfoliatum</i>	137
19	Mon.	<i>Euphorbia lathyris</i>	160, 164
"	"	" <i>maculata</i>	9 167
5	"	<i>Eutoca viscida</i>	51
19	Pol.	<i>Fagus sylvatica</i>	165
11	"	<i>Fragaria virginiana</i>	90
20	Germ.	<i>Fraxinus acuminata</i>	171
16	Hex.	<i>Frumaria officinalis</i>	128
8	Mon.	<i>Fuschia magellanica</i>	89
13	Gym.	<i>Galeopsis Tetrahitis</i>	116
4	Mon.	<i>Galium lanceolatum</i>	32
"	"	" <i>trifidum</i>	30
"	"	" <i>triflorum</i>	32
10	"	<i>Gaultheria procumbens</i>	78
5	Dig.	<i>Geranium crinita</i>	42
"	"	" <i>saponaria</i>	7
15	Dec.	<i>Geranium dissectum Robertianum</i>	125
"	"	" <i>maculatum</i>	123
13	Aug.	<i>Gerardia pedicularia</i>	108
"	"	<i>Gerardia purpurea</i>	"
11	Pol.	<i>Geum rivale</i>	90
"	"	" <i>strictum</i>	"
5	Mon.	<i>Gillia tricolor</i>	51
3	"	<i>Gladiolus ensiformis</i>	140
13	Gym.	<i>Glechoma hederacea</i>	110
17	Sup.	<i>Gnaphalium dioicum</i>	138
"	"	" <i>margaritaceum</i>	137
"	"	" <i>plantaginum</i>	"
"	"	" <i>polycephalum</i>	"
"	"	" <i>uliginosum</i>	"
8	Mon.	<i>Somiphrena globosa</i>	53
18	"	<i>Goodera pubescens</i>	153
6	Trig.	<i>Gyromia virginica</i>	64

18	Mon.	<i>Heabenaria dilatata</i>	151
"	"	" <i>limbrata</i>	153
"	"	" <i>herbiola</i>	"
"	"	" <i>incisa</i>	149
"	"	" <i>macrophylla</i>	151
"	"	" <i>orbiculata</i>	155
"	"	" <i>psyodes</i>	150, 151
4	Dig.	<i>Hamamelis virginica</i>	30
2	Mon.	<i>Hedeoma pulegioides</i>	4
10	Dec.	<i>Hedysarum canadense</i>	133
"	"	" <i>nudiflorum</i>	131
"	"	" <i>paniculatum</i>	133
"	"	" <i>viridiflorum</i>	130
12	Pol.	<i>Helianthemum canadense</i>	150
"	"	" <i>compositum</i>	"
17	Frust.	<i>Helianthus <del>decapetalus</del></i>	136
12	Pol.	<i>Hepatica triloba, acuta</i>	96
"	"	" <i>obtusata</i>	100
17	Aug.	<i>Hieracium Gronovii</i>	135
"	"	" <i>Kalmii</i>	"
"	"	" <i>paniculatum</i>	"
"	"	" <i>pratense</i>	"
"	"	" <i>venosum</i>	"
4	Mon.	<i>Hieracium cerulea</i>	30
20	Pen.	<i>Hemulus lupulus</i>	171
5	Dig.	<i>Hedyscotyle americana</i>	36
12	2-5	<i>Hypericum canadense</i>	94
"	"	" <i>galioides</i>	"
"	"	" <i>perforatum</i>	"
"	"	" <i>quinguenervium</i>	"
6	Mon.	<i>Hypoxis erecta</i>	60
13	Gym.	<i>Hypoxis officinalis</i>	112
14	Mon.	<i>Hieris amara</i>	111
"	"	" <i>umbellata</i>	"
5	"	<i>Impatiens balsaminea</i>	40
"	"	" <i>fulva</i>	"
"	"	" <i>pallida</i>	51
17	Sup.	<i>Inula helenium</i>	140

3	Mon	<i>Iris versicolor, sulcata</i>		14	16	Dec	<i>Lupinus albus</i>	132
4	"	<i>Isandria palustris</i>		32	"	"	<i>crucikshandii</i>	"
19	Pol	<i>Juglans cinerea</i>		162	"	"	<i>hirsutus</i>	"
6	Mon	<i>Juncus effusus</i>		61	"	"	<i>presens</i>	129
20	"	<i>Juncus communis, depressa, (staminea)</i>		169	6	Mon	<i>Luzula campestris</i>	61
"	"	<i>" virginiana</i>		171	21	Lycop	<i>Lycopodium annotinum</i>	177
10	Mon	<i>Xalonia angustifolia</i>		78	"	"	<i>Clavatum</i>	"
17	Aeg.	<i>" latifolia</i>		"	"	"	<i>complanatum</i>	"
17	Aeg.	<i>Rigia virginica</i>		143	"	"	<i>dendroidum</i>	"
17	Aeg.	<i>Lactuca elongata</i>		130	"	"	<i>lucidulum</i>	"
"	"	<i>" sativa</i>		145	5	Mon	<i>Lycopsis arvensis</i>	37
16	Dec.	<i>Lathyrus odoratus coccineus</i>		127	2	"	<i>Lycopus europaeus</i>	6
9	Mon	<i>Leonurus Bengoin</i>		78	"	"	<i>virginicus</i>	6
"	"	<i>" sassafras</i>		"	5	"	<i>Lysimachia ciliata</i>	40
15	Pol	<i>Leucostema trinensis, alba</i>		125	"	"	<i>quadripolia</i>	52
"	"	<i>" " rubra</i>		123	"	"	<i>stricta</i>	40
17	Aeg.	<i>Leontodon Taraxacum</i>		141	18	Mon	<i>Malaxis liliifolia</i>	155
6	Mon	<i>Leontice thalictroides</i>		57	"	"	<i>" (S. Microstylis) ophioglossoides</i>	153
13	Gym	<i>Leonurus cardiaca</i>		138	15	Pol	<i>Malva crispa</i>	135
14	Elie	<i>Lepidium sativum</i>		117	"	"	<i>" rotundifolia</i>	133
"	"	<i>" virginicum</i>		118	13	Gym	<i>Monardella vulgare</i>	114
16	Dec	<i>Lespedeza frutescens</i>		131	"	Aug.	<i>Monarda proboscidea</i>	107
"	"	<i>" hirta</i>		"	"	"	<i>Melampyrum lineare</i>	108
"	"	<i>" sessiliflora</i>		"	16	Dec	<i>Meibomia vulgaris</i>	132
17	Aeg.	<i>Liatris scariosa</i>		144	13	Gym	<i>Meibomia effusa</i>	60
6	Mon	<i>Lilium canadense</i>		66	"	"	<i>Mentha borealis</i>	110
"	"	<i>" philadelphicum</i>		"	"	"	<i>" piperita</i>	112
"	"	<i>" tigrinum</i>		"	"	"	<i>" viridis</i>	106
4	"	<i>Lonicera borealis</i>		32	"	Aug.	<i>Mimulus ringens</i>	106
5	Pent	<i>Linum usitatissimum</i>		39	5	Mon	<i>Mirabilis jalapa</i>	43
"	"	<i>" virginianum</i>		38	4	"	<i>Mitchella repens</i>	30
"	Mon	<i>Lobelia cardinalis</i>		42	10	Big.	<i>Mullella diphylla</i>	86
"	"	<i>" inflata</i>		40	19	Mon	<i>Momordica charitatis</i>	164
"	"	<i>" nuttallii</i>		52	10	"	<i>Monotropa hypopithys</i>	84
"	"	<i>Leonicea parviflora</i>		43	"	"	<i>" uniflora</i>	"
"	"	<i>" sempervirens</i>		56	19	Tet	<i>Morus alba</i>	163
					20	Tri	<i>Morone</i>	"
							<i>Myrica gale</i>	169

6	Mon	<i>Narcissus poeticus</i>	59
"	"	<i>pseudo-narcissus</i>	64
18	"	<i>Neottia cernua</i>	149
"	"	<i>tortilis</i>	"
13	Syn	<i>Nepeta cataria</i>	106
15	Mon	<i>Nicotiana tabacum</i>	47
12	2-5	<i>Nigella damascena</i>	95
"	Mon	<i>Nymphar advena</i>	"
"	"	<i>Nymphalaea odorata</i>	96
20	Pen	<i>Nysa villosa (pistillate)</i>	177
"	"	<i>" (staminate)</i>	"
8	Mon	<i>Oenothera biennis</i>	68
"	"	<i>chrysantha</i>	"
"	"	<i>grandiflora</i>	74
"	"	<i>lindleyana</i>	69
"	"	<i>minima</i>	68
21	Fili	<i>Onoclea sensibilis</i>	179
18	Mon	<i>Orchis tridentata</i>	149
13	Aug	<i>Orobanchae uniflora</i>	112
21	Fili	<i>Osmunda cinnamomea</i>	175
"	"	<i>interrupta</i>	"
"	"	<i>regalis</i>	"
19	Pol	<i>Ostrya virginica</i>	167
10	Pen	<i>Oxalis stricta</i>	50
"	"	<i>acetosella</i>	"
8	Mon	<i>Oxyccus macrocarpus</i>	68
5	Dig	<i>Panax trifolium (pistil)</i>	36
"	"	<i>" (stam.)</i>	36
3	"	<i>Panicum crus galli</i>	18
"	"	<i>latifolium</i>	24
12	Mon	<i>Papaver rhoeas</i>	104
"	"	<i>somniferum</i>	"
5	Tet	<i>Parnassia caroliniana</i>	36
"	Dig	<i>Pastinaca sativa</i>	42
13	Aug	<i>Pedicularis canadensis</i>	110
10	Pen	<i>Penthorum sedoides</i>	50
5	Mon	<i>Petunia nitidiflora</i>	57

5	Mon	<i>Petunia phoenicia</i>	47
3	Dig	<i>Phalaris americana, picta</i>	16
"	"	<i>canadensis</i>	20
16	Dec	<i>Phaseolus nanus</i>	128
3	Dig	<i>Phleum pratense</i>	18
5	Mon	<i>Phlox drummondii</i>	41
"	"	<i>paniculata</i>	"
"	"	<i>subulata</i>	45
10	Dec	<i>Physolacca decandra</i>	80
11	Mon	<i>Philadelphus coronarius</i>	92
19	"	<i>Pinus canadensis</i>	167
"	"	<i>rigida</i>	157
"	"	<i>strobus</i>	"
16	Dec	<i>Pisum sativum</i>	133
"	"	<i>" humile</i>	"
4	Mon	<i>Ranunculus lanceolata</i>	31
"	"	<i>major</i>	30
19	Pol	<i>Ratanus occidentalis</i>	166
18	Mon	<i>Ragwortia ophioglossoides</i>	149
16	Oct	<i>Polygala paniculata (alba ?)</i>	129
"	"	<i>" (rubra ?)</i>	129
"	"	<i>" polygama</i>	"
"	"	<i>" purpurea</i>	"
"	"	<i>verticillata</i>	"
8	Tri	<i>Polygonum aviculare</i>	70
"	"	<i>convolvulus</i>	"
"	"	<i>pagopyrum</i>	"
"	"	<i>orientale</i>	"
"	"	<i>persicaria</i>	"
"	"	<i>sagittatum</i>	"
"	"	<i>scandens</i>	"
"	"	<i>virginianum</i>	"
21	Fili	<i>Polypodium vulgare</i>	179, 181
6	Mon	<i>Pontederia cordata</i>	58
20	Oct	<i>Populus deltata (stam.)</i>	173
"	"	<i>" grandidentata (pistil)</i>	"
"	"	<i>tremuloides (20)</i>	"
12	Mon	<i>Portulacca oleracea</i>	102
4	Tetr	<i>Potamogeton <del>terrestris</del></i>	30

11	Pol	Potentilla argentea	86	5	Tri	Rhus typhina	38
"	"	" canadensis	87	"	"	" vernix	"
"	"	" hirsuta	86	19	Mon	Baccharis communis	160
"	"	" norvegica	"	5	"	Bibes floridum	36
"	"	" simplex	90	"	"	" rubrum	52
19	Pol	Poterrum sanguisorba	166	"	"	" triflorum	"
17	Aeg.	Prenanthes alba	135	16	Dec	Robinia pseudo-acacia	127
6	Mon	Prinos verticillatus	60	11	Pol	Rosa alba	91
13	Gym	Prunella vulgaris	166	"	"	" virginiana	"
11	Mon	Prunus domestica	59	"	"	" carolina	90
"	"	" pennsylvanica	90	"	"	" cinnaomoea	91
"	"	" serotina	92	"	"	" damascena	96
"	"	" virginiana	86	"	"	" gallica	91
13	Gym	Pycnanthemum lanceolatum	114	"	"	" <del>sacida</del> gemella	90
10	Mon	Pyrola rotundifolia	78	"	"	" parviflora	91
"	"	" secunda	82	"	"	" spinosissima	91
"	"	" umbellata	78	"	"	Rubus canadensis	83
11	2-5	Pyrus communis	92	"	"	" obovatis	"
"	"	" cydonia	87	"	"	" occidentalis	"
"	"	" malus	92	"	"	" odoratus	"
19	Pol	Quercus alba	161	"	"	" stigosus	"
"	"	" laurasteri	165	"	"	" tinialis	"
"	"	" coccinea	161	"	"	" villosus	"
12	Pol	Ranunculus acris	98	6	Tri	Rumex acetosella	61
"	"	" fascicularis	"	"	"	" crispus	60
"	"	" recurvatus	"	"	"	" obtusifolius	59
"	"	" repens	"	"	"	" sanguineus	60
"	2-5	Rorunda odorata	104	10	Mon	Ruta graveolens	84
5	Mon	Rhamnus catharticus	53	19	Pol	Sagittaria sagittifolia	159
14	Filig.	Rhaparthus sativus, fr. com.	115	"	"	" " , gracilis	"
10	Mon	Rhododendron nudiflorum	82	"	"	" " , hastata	"
"	"	" " undiflorum	78	5	Trig	Sambucus canadensis	48
"	"	" Rhodora canadensis	81	"	"	" pubescens	"
5	Tri	Rhus copallinum	43	"	Dig	Tanicula marilandica	36
"	"	" glabrum	50	10	"	Taponaria officinalis	79
"	"	" Toxicodendron	"	12	Mon	Taraxemia purpurea	96
"	"	" " radicans	"	13	Gym	Tataraja hortensis	114
"	"	" " "	"	10	Dig	Taxifraga pennsylvanica	81



10	Dig	<i>Laxifraga virginica</i>	81	6	Mon.	<i>Streptopus roseus</i>	63
4	Mon	<i>Lachosa atropurpurea</i>	34	5	"	<i>Symphitum officinale</i>	54
16	"	<del><i>Helianthus parsonsii</i></del>	128	4	"	<i>Synlocarpus foetida</i>	31
"	"	<i>Helianthus pinnatus</i>	130	2	"	<i>Syringa vulgaris</i>	8
3	Mon	<i>Lepus tenuis</i>	16				
13	Gym	<i>Leptellaria galeniculata</i>	110	17	Sup.	<i>Tagetes erecta</i>	144
"	"	<i>lateriflora</i>	106	"	"	<i>" patula</i>	138, 147
3	Dig	<i>Lecale cereale</i>	16	"	"	<i>Tanacetum vulgare</i>	142
10	Pen	<i>Ledum ternatum</i>	81	20	Mon.	<i>Taxus canadensis</i>	170
17	Sup	<i>Senecio aureus</i>	141	13	Pol.	<i>Thalictrum dioicum</i>	98
"	"	<i>" hieracifolius</i>	143	5	Mon.	<i>Thesium umbellatum</i>	45
"	"	<i>" obovatus</i>	142	13	Gym.	<i>Thymus vulgaris</i>	114
3	Dig	<i>Letaria glauca</i>	18	10	Dig.	<i>Thiarella cordifolia</i>	78
15	Pol.	<i>Lida abutilon</i>	123	12	Mon.	<i>Lilia glabra</i>	100
10	Tri	<i>Lilium armeria</i>	81	3	Dig.	<i>Trichodum laxiflorum</i>	24
"	"	<i>" pennsylvanica</i>	79	13	Gym.	<i>Tricostema dichotoma</i>	106
14	Silig.	<i>Linapis alba</i>	116	7	Mon.	<i>Trientalis americana</i>	66
"	"	<i>" nigra</i>	115	16	Dec.	<i>Trifolium arvense</i>	127
5	Dig	<i>Lison aureus</i>	54	"	"	<i>" pennsylvanicum</i>	130
4	Silig.	<i>Lisymbrium officinale</i>	115	"	"	<i>" pratense</i>	127
3	Mon.	<i>Lysimachium anceps</i>	14	"	"	<i>" procumbens</i>	"
5	Dig	<i>Lium latifolium</i>	45	"	"	<i>" repens</i>	"
20	Hex	<i>Luilax peduncularis (pilulata)</i>	169	6	Tri.	<i>Trillium erectum</i>	63
5	Mon	<i>Solanum lycopersicum</i>	53	"	"	<i>cythraeapon</i>	58
"	"	<i>" nigrum</i>	52	3	Dig.	<i>Triticum aestivum</i>	20
"	"	<i>" pseudo capsicum</i>	51	8	Mon.	<i>Tropaeolum majus</i>	74
"	"	<i>" tuberosum</i>	52	17	Sup.	<i>Tussilago parviflora</i>	141
17	Sup	<i>Solidago altissima</i>	140	19	Tri.	<i>Tophia latifolia</i>	159
"	"	<i>" bicolor</i>	137				
"	"	<i>" odora</i>	143	5	Dig.	<i>Ulmus americana</i>	39
"	Aeg	<i>Luchus cleracens</i>	142	19	Tet.	<i>Urtica dioica</i>	161
11	2-5	<i>Lorbus americana</i>	90	6	Mon.	<i>Urticaria perfoliata</i>	54
17	Sup	<i>Solidago lateriflora</i>	143	"	"	<i>" sessilifolia</i>	67
10	Pen	<i>Spergula arvensis</i>	80				
11	2-5	<i>Spirea salicifolia</i>	86	10	Mon.	<i>Vaccinium corymbosum</i>	79
"	"	<i>" tomentosa</i>	"	"	"	<i>" frondosum</i>	82
5	Mon	<i>Spigelia marilandica</i>	39	"	"	<i>" pennsylvanicum</i>	84
10	Trig	<i>Stellaria lanceolata</i>	79	"	"	<i>" resinosa</i>	82
"	"	<i>" media</i>	82	"	"	<i>" stamineum</i>	81

6	Tri.	<i>Veratrum viride</i>	58	6	Mon.	<i>Allium cepa</i>
5	Mon.	<i>Verbascum thapsus</i>	40	5	Dig.	<i>Aspidium petaselinum</i>
13	Ang.	<i>Verbena hastata</i>	112	21	Fil.	<i>Aspidium acrostichoides</i>
"	"	" <i>longifolia</i>	114	17	Sup.	<i>Aster chinensis</i> , var.
"	"	" <i>urticifolia</i>	108	"	"	" <i>linariifolius</i>
2	Mon.	<i>Veronica arvensis</i>	4	"	"	" <i>macrophyllus</i>
"	"	" <i>peregrina</i>	8	"	"	" <i>multiflorus</i>
"	"	" <i>scutellata</i>	6	"	"	" <i>mutabilis</i>
"	"	" <i>serpyllifolia</i>	4	"	"	" <i>recurvatus</i>
5	Tri.	<i>Viburnum acerifolium</i>	48	19	Pol.	<i>Betula papyrifera</i>
"	"	" <i>pauciflorum</i>	36	1	Dig.	<i>Stellium virgatum</i>
"	"	" <i>lentago</i>	36	21	Fil.	<i>Botrychium fumarioides</i>
"	"	" <i>opulus, roseum</i>	43	"	"	" <i>obliquum</i>
16	Dec.	<i>Vicia sativa</i>	131	1	Dig.	<i>Callitriche autumnalis</i>
8	Mon.	<i>Villarsia lacunosa</i>	52	"	"	" <i>verna</i>
"	"	<i>Vinca minor</i>	49	19	Tri.	<i>Carex digitalis</i>
"	"	<i>Viola blanda</i>	46	"	"	" <i>negra</i>
"	"	" <i>canadensis</i>	49	"	"	" <i>scabrosa</i>
"	"	" <i>cucullata</i>	46	"	"	" <i>scoparia</i>
"	"	" <i>lanceolata</i>	45	"	"	<i>Celosia cristata, lutea</i>
"	"	" <i>muhlenbergii</i>	46	"	Mon.	<i>Cucumis melo</i>
"	"	" <i>ovata</i>	"	10	Dig.	<i>Dianthus argophyllus, albus</i>
"	"	" <i>pedata</i>	"	"	"	" <i>variegatus</i>
"	"	" <i>pubescens</i>	"	8	Mon.	<i>Epilobium rosmarinifolium</i>
"	"	" <i>rostrata</i>	"	21	Equis.	<i>Equisetum arvense (sterile)</i>
"	"	" <i>rotundifolia</i>	"	3	Mon.	<i>Eriophorum virginicum</i>
"	"	" <i>sagittata</i>	"	17	Aeg.	<i>Eupatorium purpureum</i>
"	"	" <i>tricolor</i>	"	"	"	" <i>verticillatum</i>
"	"	<i>Vitis labrusca (port)</i>	37	4	Mon.	<i>Galium asprellum</i>
"	"	" <i>(stam.)</i>	"	"	"	" <i>virgatum</i>
"	"	" <i>rupestris</i>	49	13	Angie.	<i>Gerardia flava</i>
"	"	<i>Xylosteum ciliatum</i>	44	5	Mon.	<i>Gomphrena globosa, alba</i>
"	"	" <i>villosum</i>	"	17	Frus.	" <i>striata</i>
19	Tri.	<i>Zea mays</i>	158	"	"	" <i>tuberosus</i>
17	Sup.	<i>Zeranthemum annuum</i>	144	6	Mon.	<i>Hemerocallis flava</i>
"	"	" <i>lucidum</i>	"	14	Liliq.	<i>Hesperis matronalis</i>
"	"	<i>Zinnia elegans</i>	146	"	"	" <i>tristis</i>
"	"	" <i>rubra</i>	"	"	"	"

*Hydrophyllum virginicum*  
*Hypericum angulosum*  
     "    *punctatum*  
*Ilex canadensis*  
*Ipomoea purpurea*  
*Juncus tenuis* ?  
*Juniperus communis*, *depressa* (pistill.)  
*Lathyrus odoratus*  
*Leechea major*  
     "    *minor*  
*Ligusticum levisticum*  
*Listera convallarioides* ?  
*Mollugo verticillata*  
*Monarda difphylla*, *angustifolia*  
*Nyssa cefifera*  
*Oxalis violacea*  
*Panicum capillare*  
     "    *nitidum*, *gracile*  
*Phaseolus vulgaris*  
*Pinus alba*  
     "    *nigra*  
*Poa annua*  
*Pogonia verticillata*  
*Populus tremuloides* (stam.)  
*Prunus cerasus*  
*Pteris aquilina*  
*Pyrrola maculata*  
     "    *uniflora*  
*Rhaphanus sativus*, *orbiculatus*  
*Rosa semperflorens*  
*Rubus saxatilis*, *canadensis*  
*Rugina procumbens*  
*Salvia officinalis*  
*Sedum telephium*  
*Silene antirrhinum*  
*Smilax peduncularis* (stam.)  
*Solidago stricta*  
*Sparganium ramosum*  
     *et c.*

17

et c.

*Fragopogon porrifolium*  
*Tulipa gesneriana*  
*Viburnum oxycoccus*  
     "    *pyrifolium*

This booklet brought to  
the Gray Herbarium Sept., 1964  
by Ruth Coolidge of Brookline,  
Mass., a descendant of George  
Pierce whose herbarium was  
supposedly given to the Gray  
about 1947. Pierce was  
a physician and Harvard College  
graduate and was born  
about 1807.

R. C. Rollins











## General Remarks.

This little work, on Chirography, is comprised in Four Books. Book First is intended for those who are just beginning to write. Book Second is intended for those who have made some progress in writing. The Third and Fourth Books are intended for the higher classes. The copies are designed to be cut out, and used as copy-slips. Each book is to be filled according to the directions on the cover. The course of lessons in the four books, are such as to conduct the young learner by regular and progressive steps, from the simplest elements, to the more complete part of penmanship; and the style is calculated to lead the pupil into a legible and elegant, as well as expeditious and business-like mode of writing.

This work is offered at a price so low, that every child can have it, or, at least, part of it, who is able to purchase a writing book. It may, therefore, be introduced into every school throughout the country. In large schools, it may be well for the writers to be divided into four classes. Let those who use Book First belong to the first division; and let those who use Book Second, belong to the second division, &c. If the first and second divisions were to write in the forenoon, and the third and fourth divisions in the afternoon, it would undoubtedly afford the teacher a better opportunity of giving particular instruction to each scholar. The limits of the work admit only of general directions. It is left with teachers to give any further instructions which may be necessary.

## Sitting, and Placing the Paper.

Sit at a convenient distance, and incline the left side towards the desk, without leaning upon, or even touching it with the body; by which means, the right shoulder will extend further from the desk than the left, and give a natural and easy slope to the writing. Let the paper lie parallel with the edge of the desk, and at a small distance to the right of the body. Rest lightly on the left arm, and with the fingers of the left hand, keep the paper firm and smooth, placing them below the line, near the pen. The body should incline a little forward, and the head answer to this inclination, without resting on either shoulder. Keep the elbow of the right arm at a small distance from the side, and let the arm rest lightly upon the desk about half way between the end of the fingers and the elbow.

## Holding the Pen.

The pen should be held loosely, between the end of the thumb and middle finger, near the corner of the nail of each; the fore-finger should lie on the top, or back of the pen, and be just as low as the top of the nail of the middle finger: the distance from the middle to the point of the pen, should be at least half an inch. The joints of the thumb should extend outward, and the end be raised about as high as the first joint of the fore-finger. Incline the third and fourth fingers under, towards the hollow of the hand, and rest lightly on the ends of each. The pen should be held with the feather ranging over the right shoulder, so that the teeth of it may have equal pressure on the paper. (*See the Hands on the title page.*)

## General Directions.

Write one page of each lesson. The number of lessons in this book is thirty. (*See Plate in the middle of the book.*) The copies are to be cut out, and placed before the learner. In the first place, cut out a slip embracing seven lessons. When these are written, cut out three lines more, &c. On the right hand page, cut out a slip embracing the capitals and figures. When these are written, cut out the remaining six lines, and write a page of each word.

**Lesson I.** Write about forty straight marks on a line, and eight lines on a page, leaving two spaces between the lines. The distance from one ruled line to another we will call a space. The marks in the first lesson are drawn three spaces in length. Set them equally distant, and give them all the same slope. The second, third, fourth, fifth, sixth, and seventh lessons, are drawn three spaces in length.

**Lesson II.** Write one page of this character, joining them together near the top. Set about thirty of them on a line; write eight lines on a page, leaving two spaces between the lines.

**Lesson III.** Write one page of this character, joining them together near the bottom. Set about thirty of them on a line; write eight lines on a page, leaving two spaces between the lines.

**Lesson IV.** Write one page of this character, forming the top and bottom turns alike, and setting about twenty-four of them on a line. All top and bottom turns should be made without lifting the pen from the paper. This character forms the last part of *m*, *n*, *p*, and *h*, and the first part of *y*. What character forms the first part of *m* and *n*?

14  
14  
14

14

01

14

Everlasting Pea

Sweet William

Larkspur

Escholtzia

Star of Bethlehem

Double Feather fern

Widenwort or Cat's paw

Scarlet snapdragon

Pink double Poppy

Princess' Feather

Love lies bleeding 2

Cockscomb

Flax

Anise

Blue bell or modesty

White Candy tuft

White Marigold